Relational Schema

OrderDetails
OrderDetailID
Quantity
OrderID (FK)
ProductID (FK)

Products
ProductID
ProductName
Unit
Price
CustomerID (FK)
SupplierID (FK)
CategoryID (FK)

Suppliers
SupplierID
SupplierName
ContactName
Address
City

Employees
EmployeeID
LastName
FirstName
BirthDate
Photo
Notes

Orders
OrderID
OrderDate
CustomerID (FK)
EmployeeID (FK)
ShipperID (FK)

Customers
CustomerID
CustomerName
ContactName
Address
City

Categories
CategoryID
CategoryName
Description

Shippers
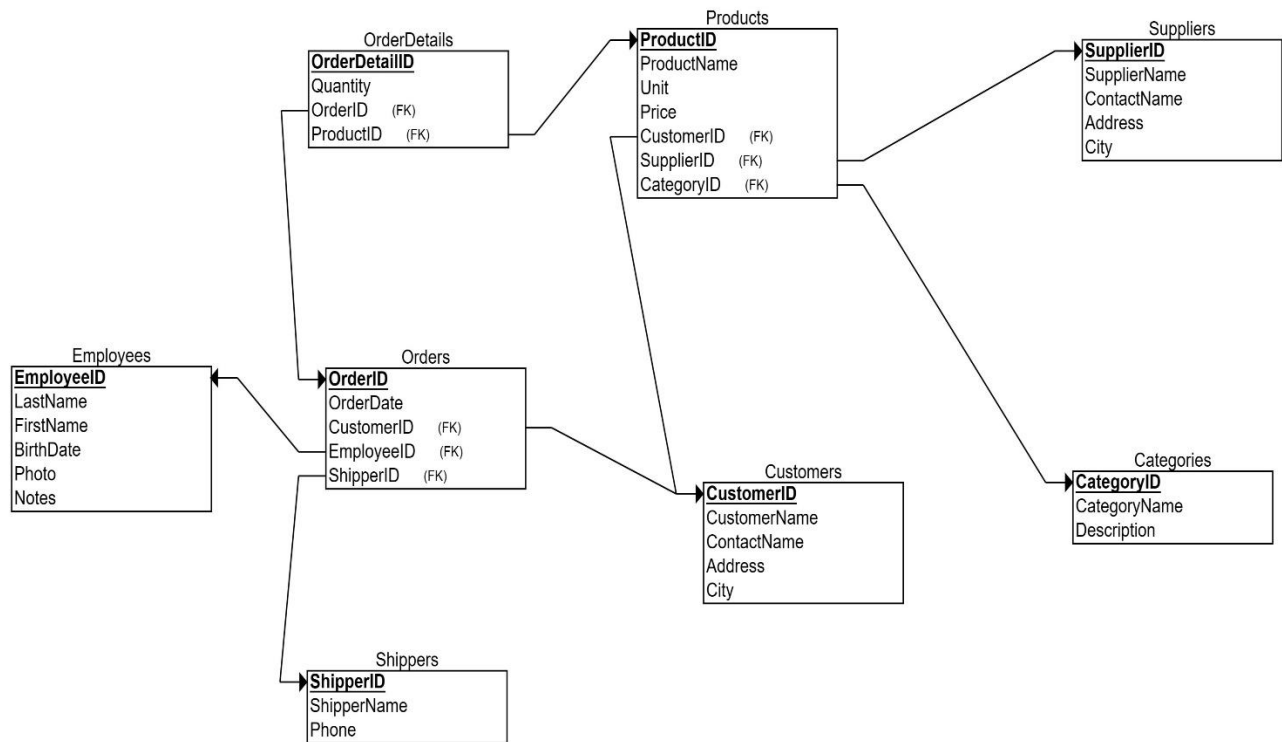| |
|---|
| **ShipperID** |
| ShipperName |
| Phone |

First SQL Exercise

```sql
SELECT Employees.EmployeeID,concat(Employees.FirstName, '
',Employees.LastName) as EmployeeName,count(Orders.EmployeeID) as NoOfOrders
from Employees
LEFT JOIN Orders on Employees.EmployeeID = Orders.EmployeeID
GROUP BY Employees.EmployeeID,Employees.FirstName,Employees.LastName
ORDER BY NoOfOrders DESC;
```

Output

	EmployeeID	EmployeeName	NoOfOrders
1	4	Margaret Peacock	40
2	3	Janet Leverling	31
3	1	Nancy Davolio	29
4	8	Laura Callahan	27
5	2	Andrew Fuller	20
6	6	Michael Suyama	18
7	7	Robert King	14
8	5	Steven Buchanan	11
9	9	Anne Dodsworth	6
10	10	Adam West	0

Second SQL Exercise

```sql
SELECT Employees.EmployeeID,concat(Employees.FirstName, '
',Employees.LastName) as EmployeeName, count(OrderDetails.Quantity)as
SoldMostBeverages from Employees
LEFT JOIN Orders on  Employees.EmployeeID = Orders.EmployeeID
RIGHT JOIN OrderDetails on Orders.OrderID = OrderDetails.OrderID
FULL OUTER JOIN Products on OrderDetails.ProductID = Products.ProductID
WHERE Products.CategoryID = 1
GROUP BY Employees.EmployeeID,Employees.FirstName,Employees.LastName
ORDER BY SoldMostBeverages DESC;
```

Output

	EmployeeID	EmployeeName	SoldMostBeverages
1	4	Margaret Peacock	29
2	1	Nancy Davolio	13
3	3	Janet Leverling	11
4	7	Robert King	8
5	8	Laura Callahan	8
6	6	Michael Suyama	7
7	2	Andrew Fuller	7
8	5	Steven Buchanan	5
9	9	Anne Dodsworth	5